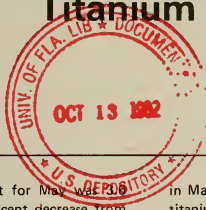




# Titanium Ingot, Mill Products, and Castings



U.S. Department of Commerce  
BUREAU OF THE CENSUS  
BUREAU OF INDUSTRIAL ECONOMICS

MAY 1982

ITA-991(82)-5  
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The total production of titanium ingot for May was 3.6 million pounds. This represented a 28-percent decrease from the April total of 5.0 million pounds. Consumption of titanium ingot decreased by 20 percent in May to 4.2 million pounds from 5.2 million pounds in April. Net shipments of titanium mill products decreased by 14 percent to 3.0 million pounds

in May from 3.4 million pounds in April. Total shipments of titanium castings decreased by 17 percent to 45 thousand pounds in May from 54 thousand pounds in April.

A description of the survey methodology and related information may be found in the January 1982 report for this series, ITA-991(82)-1, issued June 1982.

Table 1. NET SHIPMENTS OF TITANIUM MILL PRODUCTS

| (Thousands of pounds)             |          |            |          |
|-----------------------------------|----------|------------|----------|
| Product                           | May 1982 | April 1982 | May 1981 |
| Total <sup>1</sup> .....          | 2,961    | 3,436      | 4,477    |
| Sheet and strip.....              | (2)      | (2)        | (2)      |
| Plate.....                        |          |            |          |
| Forging and extrusion billet..... | 1,613    | 1,986      | 2,429    |
| Rod and bar.....                  | 249      | 313        | 789      |
| Fastener stock and wire.....      | 60       | 79         | 99       |
| Extrusion.....                    |          |            |          |
| Pipe and tubing.....              | 1,132    | 1,166      | 1,523    |
| Other.....                        |          |            |          |

<sup>1</sup>Net shipments, total, is the sum of mill products consumed in the manufacture of fabricated products, less total receipts. Net shipments for each mill product category also includes the consumption of mill products in that category in the manufacture of other mill products. Detail does not add to total because of this difference in definition.

<sup>2</sup>Data for sheet and strip, plate, extrusion (other than tubing), pipe and tubing, and other have been combined to avoid disclosing individual company data.

Table 2. TITANIUM INGOT, MILL PRODUCTS, AND CASTINGS: 1982 AND 1981

| Month and year | Ingot      |             |           |          |                    | Mill products |          |                               | Castings   |           |
|----------------|------------|-------------|-----------|----------|--------------------|---------------|----------|-------------------------------|------------|-----------|
|                | Production | Consumption | Shipments | Receipts | Ending inventories | Production    | Receipts | Net shipments <sup>1, 2</sup> | Production | Shipments |
| 1982           |            |             |           |          |                    |               |          |                               |            |           |
| .....          | 3,606      | 4,177       | 456       | 711      | 5,896              | 2,830         | 368      | 2,961                         | 59         | 45        |
| .....          | 5,001      | 5,204       | 769       | 806      | 6,405              | 3,209         | 353      | 3,436                         | 69         | 54        |
| .....          | 6,858      | 7,320       | 867       | 1,071    | 6,552              | 4,361         | 704      | 4,454                         | 90         | 59        |
| ary.....       | 6,505      | 6,202       | 973       | 1,252    | 6,686              | 4,185         | 830      | 3,458                         | 83         | 55        |
| ry.....        | 6,452      | 6,222       | 1,363     | 955      | 6,523              | 4,475         | 825      | 3,655                         | 77         | 43        |
| 1981           |            |             |           |          |                    |               |          |                               |            |           |
| Total.....     | (NA)       | (NA)        | (NA)      | (NA)     | (NA)               | 58,940        | 9,084    | 50,983                        | 675        | 417       |

A) Not available.

See table 1 for more detailed data.

Net shipments, total, is the sum of mill products consumed in the manufacture of fabricated products, less total receipts. Net shipments for each product category also includes the consumption of mill products in that category in the manufacture of other mill products. Detail does not add to total because of this difference in definition.

Address inquiries concerning these figures to the U.S. Department of Commerce, Bureau of Industrial Economics, Materials Division, Washington, D.C. 20230, or to the Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Nathaniel A. Shelton, (301) 763-2529.

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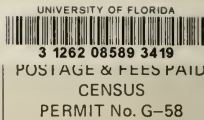


Table 3. NET SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF TITANIUM MILL PRODUCTS: 1982 AND 1981

(Quantity in thousands of pounds; value in thousands of dollars)

| Month and year   | Manufacturers' net shipments <sup>1</sup><br>(quantity) | Exports of domestic merchandise <sup>2</sup> |               |   | Percent exports to manufacturers' net shipments (quantity) | Imports for consumption <sup>4</sup> |                    | Apparent consumption <sup>5</sup><br>(quantity) | Percent imports to apparent consumption (quantity) |
|--|---|--|---------------|---|--|--------------------------------------|--------------------|---|--|
|  |   | Quantity                                     | Value at port | Estimated producers' value <sup>3</sup> |  | Quantity                             | Value <sup>5</sup> |   |  |
| MAY 1982   |   |  |               |   |  |                                      |                    |   |  |
| Total.....   | 3,510   | 666  | 13,077        | 12,725                                  | 18   | 329                                  | 3,285              | 3,173   | 10   |
| Titanium ingot and forging and extrusion billet <sup>6</sup> ..... | 2,069   | 439  | 9,165         | 8,918                                   | 21   | 106                                  | 1,011              | 1,736   | 6  |
| Titanium mill products.....  | 1,441   | 227  | 3,912         | 3,807                                   | 16   | 223                                  | 2,274              | 1,437   | 16   |
| APRIL 1982   |   |  |               |   |  |                                      |                    |   |  |
| Total.....   | 4,313   | 537  | 7,845         | 7,634                                   | 12   | 191                                  | 2,097              | 3,967   | 5  |
| Titanium ingot and forging and extrusion billet <sup>6</sup> ..... | 2,755   | 376  | 5,066         | 4,930                                   | 14   | 71                                   | 538                | 2,450   | 3  |
| Titanium mill products.....  | 1,558   | 161  | 2,779         | 2,704                                   | 10   | 120                                  | 1,559              | 1,517   | 8  |
| MARCH 1982   |   |  |               |   |  |                                      |                    |   |  |
| Total.....   | 5,496   | 591  | 9,570         | 9,313                                   | 11   | 222                                  | 2,726              | 5,127   | 4  |
| Titanium ingot and forging and extrusion billet <sup>6</sup> ..... | 3,292   | 316  | 5,586         | 5,436                                   | 11   | 39                                   | 584                | 2,965   | 1  |
| Titanium mill products.....  | 2,204   | 225  | 3,984         | 3,877                                   | 10   | 183                                  | 2,142              | 2,162   | 9  |
| FEBRUARY 1982  |   |  |               |   |  |                                      |                    |   |  |
| Total.....   | 4,608   | 734  | 11,456        | 11,148                                  | 16   | 187                                  | 1,911              | 4,061   | 5  |
| Titanium ingot and forging and extrusion billet <sup>6</sup> ..... | 2,814   | 433  | 6,037         | 5,875                                   | 15   | 25                                   | 194                | 2,406   | 10   |
| Titanium mill products.....  | 1,794   | 301  | 5,419         | 5,274                                   | 17   | 162                                  | 1,717              | 1,655   | 10   |
| JANUARY 1982   |   |  |               |   |  |                                      |                    |   |  |
| Total.....   | 5,313   | 983  | 12,598        | 13,501                                  | 19   | 105                                  | 1,318              | 4,435   | 2  |
| Titanium ingot and forging and extrusion billet <sup>6</sup> ..... | 3,277   | 657  | 7,920         | 10,386                                  | 20   | 30                                   | 366                | 2,650   | 11   |
| Titanium mill products.....  | 2,036   | 326  | 4,678         | 2,115                                   | 16   | 75                                   | 952                | 1,785   | 4  |
| 1981   |   |  |               |   |  |                                      |                    |   |  |
| Total.....   | (NA)  | 12,098                                       | 159,454       | 155,165                                 | (NA)   | 2,719                                | 27,234             | (NA)  | (NA)   |
| Titanium ingot and forging and extrusion billet <sup>6</sup> ..... | (NA)  | 8,405  | 105,647       | 102,805                                 | (NA)   | 488                                  | 5,221              | (NA)  | (NA)   |
| Titanium mill products.....  | 27,303  | 3,693  | 53,807        | 52,360                                  | 13   | 2,231                                | 22,013             | 25,841  | 9  |

(NA) Not available.

<sup>1</sup>For a comparison of Standard Industrial Classification (SIC) codes, export (Schedule B) codes, and import (TSUSA) codes, please refer to the January report for this series, ITA 991(82)-1, issued June 1982.

<sup>2</sup>Source: Bureau of the Census report EM 546, U.S. Exports-Schedule B-Commodity by Country.

<sup>3</sup>These values were derived by use of adjustment factors to exclude freight, insurance, and other charges incurred in moving goods to the port of export. This adjustment is made to convert the values to an approximation of the producers' value of exported goods. Current adjustment factors are based on data for 1980 which are published in Origin of Exports of Manufactured Products, MDO (AS)-6, appendix B. Comparable adjustment factors for earlier years are based on similar factors developed for 1971 and 1972. The current adjustment factor for this report is 0.9731.

<sup>4</sup>Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports.

<sup>5</sup>The value includes c.i.f. (cost, insurance, and freight) at the first port of entry in the United States plus U.S. import duties and other charges to the import point.

<sup>6</sup>Apparent consumption is derived by subtracting exports from the total of net shipments plus imports.

<sup>7</sup>Comparability of output, export, and import classifications for ingot and billet assume that bloom, sheet bar, and slab are reported as ingot or billet in the output codes. Figures for imports of ingot and billet also include powder, crystal, and similar primary forms which are excluded from the output and export codes.

